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ON AUTOMORPHISMS OF FINITE p-GROUPS

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Abstract. Let G be a finite p-group such that $x\,\mathrm{Z}(G) \subseteq x^G$ for all $x \in G - \mathrm{Z}(G)$, where x^G denotes the conjugacy class of x in G. Then $|G|$ divides $|\,\mathrm{Aut}(G)|$, where $\mathrm{Aut}(G)$ is the group of all automorphisms of G.

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